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... of seven-and 63-chip **optical** code-division **multiple**-access encoders and ...

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PC Teh, P Petropoulos, M Ibsen, DJ ... - Journal of Lightwave ... , 2001 - [opticsinfobase.org](#)

... grow in investigating alternative multiplexing schemes such as **optical** code division **multiple** access (OCDMA ... of **loss** such as the transmission line, **optical** circulator insertion **loss**, and cou ... 1 as measured using the SHG autocorrelator along with the corresponding **optical** spectra. ...

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Multiplexed and distributed **optical fibre** sensor systems

[soton.ac.uk](#)

JP Dakin - J. Phys. E, 1987 - [iopscience.iop.org](#)

... Low speed electronics. Good **optical loss** budget. ... Number of collection highway sensors mainly limited by frequency management (in case Of FDM coding). **Multiple** sources and detectors necessary. Difficulties become severe for more than 10-20 sensor channels/**fibre**. ...

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Low-**loss** polymeric materials for passive waveguide components in **fiber optical** ...

M Zhou - Optical engineering, 2002 - [link.aip.org](#)

... With a broad range of property adjustability and **multiple** choices of processing approaches (photolithographic and several ... It has been mentioned before that the deuteration of methyl methacrylate monomer results in higher **optical** propagation **loss** in deuterated ...

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**Multiple fiber end preparation**

RM Hawk, JG Racki - US Patent 4,017,013, 1977 - Google Patents

... 4,017,013 **MULTIPLE FIBER END PREPARATION BACKGROUND OF THE INVENTION** Recent advances in the ... their publication entitled "**Optical Fiber** End Preparation for Low-**Loss** Splices," Bell ... entitled "**Optical Waveguide Connector**." A cable 48 of **optical** waveguide fibers ...

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**MEMS electrostatic actuators for optical switching applications**

JD Grade, H Jerman - Optical Fiber Communication Conference ... , 2001 - [opticsinfobase.org](#)

... motion [6]. Both types of switches have shown less than 0.5 dB of **loss** with switching times ... For example, in the case of a linear array of 8 **optical** fibers, each 125  $\mu\text{m}$  in ... An alternative switch architecture uses **multiple** linear actuators to intercept and redirect the **optical** beam into a ...

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Ion beam interference coating for ultralow **optical loss**

DT Wei - Applied Optics, 1989 - [opticsinfobase.org](#)

... Ion beam interference coating (IBIC) is a sputter-deposition process for **multiple** layers of **optical** thin films ... 2. UJ Gibson, "Ion-Beam Processing of **Optical** Thin Films," Phys. ... 3. V. Sanders, "High Precision Reflectivity Measurement Tech- nique for Low-**Loss** Laser Mirrors," Appl. ...

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Efficient input and output **fiber coupling** to a photonic crystal waveguide

[arxiv.org](#) [P

PE Barclay, K Srinivasan, M Borselli, O Painter - Optics letters, 2004 - [opticsinfobase.org](#)

... 0146-9592/04/070697-03\$15.00/0 © 2004 **Optical Society of America** ... lattice constants) of the transverse **grade** in hole radius while keeping the central waveguide hole radius fixed, resulting in a **loss** of transverse ... Ignoring for the moment the effects of **multiple** reflections in Eq. ...

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All **fiber wavelength selective optical switch**

DJ Fritz, TJ Bailey, GA Ball - US Patent 5,446,809, 1995 - Google Patents

... with **optical** Bragg gratings impressed therein, thus Use of such WDM increases the overall bandwidth of making the device inexpensive and easy to produce, the system. ... **multiple** inputs/single output; or **multiple** Also, high speed low-**loss** communication networks inpUts ...

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Fabrication of Optical Fibres

SB Poole, DN Payne, RJ Mears, L Reekie, ... - Electronics ..., 1985 - freepatentsonline.com

... by the field nominally confined to the **fibre** core, which gives a higher than expected **loss** due to ... This illustrates the possibility of co-doping the deposited glass with **multiple** impurity ions. ... may also be used to incorporate other rare-earth and transition metal ions into **optical** fibres. ...

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Optical multiple fiber

H Hayami, A Utsumi... - US Patent 4,690,500, 1987 - Google Patents

... OTHER PUBLICATIONS Kaiser et al. "Low **Loss** Single Material Fibers Made of 16 Claims, 4 Drawing Figures 3 I 2 ... and fusedly surrounding the **optical fiber** aggregate. The image-resolving power and flexibility of the **multiple fiber** were **grade E** and 290 mm., respectively. ...

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### Optical fiber - Wikipedia, the free encyclopedia

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into an electrical **signal**, and then added to a **signal** with the same  
amplitude and opposite .... scattering **loss** at **fiber bundle 1** to **optical**  
fiber splices, ...

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Each individual **fiber bundle** moves freely within the inner sheath ... receiver receives the  
**optical signal** and converts it back into an electrical signal. ... choice for fiber optic  
communications. Attenuation is **loss** of optical ...

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### Tapered fiber bundles for coupling light into and out of cladding ...

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If an **optical signal** is passed through the pumped core, it will be amplified. .... **fiber** within  
the taper be capable of fusion splicing with low **loss** to ...

[www.freepatentsonline.com/5864644.html](#)

### Optical fiber configuration for dissipating stray light - Patent ...

A tapered **fiber bundle** for combining a plurality of separate **optical** ..... bend **loss** without  
disturbing the light **signal** propagating in core region 32. ...

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### Fiber Optics - Fiber or equipment for conducting, amplifying ...

**Fiber** optic light guides are **bundles** of optical fibers used for the controlled deliver ... **Fiber**  
optic switches route an **optical signal** without electro-optical and ... **Fiber** optic test  
equipment is used to detect the signal **loss**/change ...

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by T Xie - 2005 - [Cited by 25](#) - [Related articles](#)

tal results demonstrate this multimode **optical fiber-bundle**-based OCT system can achieve .... surfaces of the **fiber bundle** from overwhelming the **signal**, it is necessary to pol- ... in a coupling **loss** that degrades the lateral resolution ...

[chen.bli.uci.edu/publications/J74\\_fiberbundle.pdf](http://chen.bli.uci.edu/publications/J74_fiberbundle.pdf) - [Similar](#)

[Microfabrication of pre-aligned fiber bundle couplers using ...](#)

by R Yang - 2006 - [Cited by 5](#) - [Related articles](#)

When the mask for the **optical fiber bundle** coupler is designed, the fiberport ..... the longitudinal alignment accuracy and contributed to the **signal loss**. ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > [Journal List](#) > [NIH-PA Author Manuscripts](#)

[Active 1 × N fiber splitter with optical amplification for ...](#)

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To diminish the **loss** of coherence properties of the original **signal**, **optical** amplification be ...

After the **optical fiber bundle** was prepared in this way, ...

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Aug 12, 2003 ... Measuring attenuation on a **fiber-optic** cable may seem like a big task. ... The calculation of **loss** is established as a ratio between power launched and power .... result in degradations of the **signal** due to attenuation. ...  
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smaller than this is subject to **signal loss** due to radiation and bend loss [3]. .... [13] D. R.

Goff, **Fiber Optic** Reference Guide, 2nd ed. Boston, MA: Focal ...

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AK Ghatak, K Thyagarajan - 1998 - books.google.com

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A Oliphant, DL Barker, JR Stuelpnagel, MS ... - Biotechniques, 2002 - biotechniques.com

... We achieve miniaturization by using a **fiber-optic bundle** as a substrate for the highest-density microarray available today. ... The service facility is based on a proprietary laboratory information **management** system (LIMS) that uses informatic integration rather than mechanical ...

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U Utzinger, RR Richards-Kortum - Journal of Biomedical Optics, 2003 - link.aip.org

... 2.2 **Fiber Packing**. To manufacture flexible **fiber optic** cables with a large optically active area, fibers with diameters of 100 to 200  $\mu\text{m}$  are packed into **bundles**. ... An example diffuser is presented in Figure (a). Light exits the **fiber optic bundle** and enters a turbid cylindrical volume. ...

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A Muchandani, S Pan, W Chen - Biotechnology progress, 1999 - engr.ucr.edu

... b) xenon-arc lamp; (c) monochromator; (d) bifurcated optical **fiber bundle**; (e) monochromator ... Conclusions In conclusion, an OPH-modified **fiber-optic** enzyme biosensor for direct, rapid, and ... EM; Connor, MA Genetic engineering approach to toxic waste **management**: Case study ...

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LA Bergman - US Patent 4,866,704, 1989 - Google Patents

Page 1. United States Patent [19] Bergman [ii] Patent Number: [45] Date of Patent: 4,866,704 Sep. 12, 1989 [54] **FIBER OPTIC VOICE/DATA NETWORK** [75] Inventor: Larry A. Bergman, Van Nuys, Calif. [73] Assignee: California Institute of Technology, Pasadena, Calif. [21] Appl. ...

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BE Barry, MJ Fasnacht, RR Schaffer - US Patent 5,640,482, 1997 - Google Patents

... affixed to said intermediate frame What is claimed is: members between said columnar arrays of fastener sites, 1. A cable **management** rack for enabling securing, sup- 55 each said rd ^^ providing an oval cable Support porting and routing of **bundles** of **fiber optic** cables therea ...

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J Hecht - 2004 - books.google.com

... Bend a **fiber**. and the light turns the corner. Hold one end of a **bundle** of fibers close to a light bulb and let the other end splay out. ... but it ended up as a techno-artifact in my attic. I started hearing about **fiber optic** communications a couple of years later in 1974. ...

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M GRASSO, D BAGLEY - The Journal of urology, 1998 - Elsevier

... Complementary accessories were developed for specific treatments, including endoscopic lithotripsy, **management** of urothelial lesions, treatment of upper urinary ... The first flexible ureteroscopes were based on soft, **fiber-optic bundles** that illuminated the upper urinary tract ...

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K Carlson, M Chidley, KB Sung, M Descour, A ... - ... optics, 2005 - opticsinfobase.org

... 3. SB Cantor, MF Mitchell, G. Tortolero-Luna, CS Bratka, DC Bodurka, and R. Richards-Kortum, "Cost-effectiveness analysis of diagnosis and **management** of cervical squamous ... 11. AF Gmitro

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and D. Aziz, "Confocal microscopy through a **fiber-optic imaging bundle**," Opt ...

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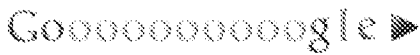
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D Huang, EA Swanson, CP Lin, JS Schuman, ... - SPIE MILESTONE ..., 1998 - mit.edu

... For example, quantitative assessment of the RNFL thickness would be a major advance in the **management** of glaucoma, a disease for which there is no ... The **fiber optic** light path in the OCT scanner can potentially be coupled to optical **fiber** or **fiber bundles** in an ...

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A **loss** budget of 15 dB is provided which equates to a distance of approximately 20 kilometers. ... When **fiber optic** cable is employed in **long haul** or the wide area ... However, it can not compete with **fiber optic transmission**. ...

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Rotwitt et al., "Distributed Raman Amplifiers for **Long Haul Transmission** Systems," ..... to the **fiber optic transmission** link a **loss** of at least 6 decibels. ...

[www.freepatentsonline.com/6778321.html](http://www.freepatentsonline.com/6778321.html)

**IN long-haul fiber-optics systems, inline amplifiers are pe-**

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riodically used to compensate for fiber **loss**. The interplay of the signal and amplifier noise ... can be employed in the middle of a **fiber-optics transmission** ..... phase conjugation for ultra **long haul** phase- shift-keyed **transmission**," ...

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BWPG Burke - Appl. Opt., 1998 - [opticsinfobase.org](#)

... The tissue- simulating samples were **mixed** with 1% Intralipid by volume, which is a well ... is complicated by photochemical changes in the fluorescence quantum yield and by **attenuation** of the ... Although this **fiber-optic bundle** cannot help us to deduce changes that are due to the ...

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... **bundles** are prepared by combining two **bundles** of **fiber** such that they are randomly **mixed** at one ... **Attenuation** (dB) = 10 log I 2 /I, (12) ... The use of interferometric **fiber optic** sensors to detect physical parameters, including pressure fluctuations, temperature, and magnetic field ...

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[... reflectance from a finite blood medium: applications to the modeling of fiber optic ...](#)

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... ring source where the source function is independent of 0 and subject to **mixed** homogeneous boundary ... **Fiber Optic** Oximeter Catheter The **fiber optic** catheter illuminates blood by conveying light to the tip, or ... in the vicinity of the tip and transmit- ted by a second **bundle** of fibers ...

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... 1. The reactor system consists of a light source, a coated **fiber-optic bundle**, and a ... The prepared fibers were bundled and polished by **Fiber optic** Systems Inc., Simi Valley, ck The 227-mL (25 x 3.4 ... efficiency of the bundled array is a function of both the **fiber** coating ...

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... in the central sketch, light from the LDs is launched into the **fiber** by a simple collimator **optic**. ... The use of a beam splitter cube as reference beam splitter instead of a **fiber optic** directional coupler ...

The **fiber** probe is connected to the photometric arrangement with SMA **fiber** plugs. ...

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... The light flux from a **fiber-optic** output can be estimated. The **fiber** outputs have been **attenuated** to produce 50 pJ as measured by a calibrated photo-diode probe. Treating the Teflon as a point source, the flux at the probe is 1.6×10<sup>6</sup> 355 nm photons/sr. ...

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U Utzinger, RR Richards-Kortum - Journal of Biomedical Optics, 2003 - link.aip.org

... is absorbed on the sides of the wedge (black paint or glue **mixed** with carbon ... the sum of the parallel and perpendicular polarized reflectance cancels common **attenuation** and the ... **Fiber optic** probes that measure polarized reflectance consist of a polarization-filtered white light ...

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... obtain **tool** wear, machining zone temperature, Ra values and the signals from **fiber optic** device, for different combinations of machining parameters using **design** of experiments. 4. Some experiments were carried out for the validation of the results from DOE and neural **network** ...

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R Ramaswami, KN Sivarajan - infocom, 1995 - computer.org

... We then compare the performance of two heuristic topology **design** algorithms (that do take wavelength assignment constraints into account) against that of randomly ... Figure 1: A WDM **network** consisting of routing nodes interconnected by point-to-point **fiber-optic** links. ...

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... the discovered **network** configuration, placing device icons representing intelligent device objects on the **network design** sheet, selecting a ... oo~^^ Browse for **Design** Sheets ... ocn FIG.12 Media Palette Unshielded Twisted Pair Shielded Twisted Pair **Fiber Optic** Cable Analog ...

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CE Spurgeon - 2000 - portal.acm.org

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... To date, there has been some research on computer- aided-**design** (CAD) systems exclusively for **fiber** networks.5 Other researchers have focused on me- chanical issues.6 Also ... For system-

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**Fiber-Optic** Technologies: By Vivek Alwayn: Apr 23, 2004 ...

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RS Dacosta, BC Wilson, NE Marcon - J Gastroenterol Hepatol, 2002 - gastrohep.com

... in one or more of the following factors: (i) the tissue architecture (mucosal thickening or loss of layered ... Optical filters block the detection of scattered excitation light. The fiber bundle probe, typically 0.5–1 mm in diameter, is delivered endoscopically via the biopsy channel and ...

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... that visible ONHD usually were associated with thinning or atrophy of the peripapillary nerve fiber bundles. ... field defects but did not always correlate with the degree of visual field loss. ... 20 Optical coherence tomography allowed us to better evaluate the NFL not only because of ...

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... The fibrous meshwork of the dermis becomes more disorganized, with loss of fiber integrity, and cross-linking of collagen ... Skin elongation was measured by an optical method with an accuracy of 0.01 mm using an infrared diode. ... Grading of dermal collagen fiber bundles. ...

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OS Wolfbeis - Fresenius' Journal of Analytical Chemistry, 1986 - Springer

... 5. Current trends Numerous optical effects described in the past await their application to optical sensing ... a single species, it will become practise to combine several sensors in to a bundle in order ... This requires, however, that there is no cross-talk between the single fiber strands ...

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... The diffuser and the bundle with the collection fibers are placed adjacent. ... and R. Ulrich, "Mechanism of UV laser-induced absorption in fused silica fibers," Fiber Integr ... Grzesik, KH Worner, H. Henschel, O. Kohn, and HU Schmidt, "Radiation resistance of optical fibers: correlation ...

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... 8ated strength member may be fabricated out of high strength glass, in particular as a **bundle** of high strength SUMMARY OF THE INVENTION glass fibers ... including **optical** fibers having an **optical loss** character- Elastomer 22 is an **optical fiber** encapsulant, such as ...

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... y z **Figure 8: Fiber Bundles** (b) Lenslet Arrays In order to achieve low **loss** through the switch fabric, collimation of the **optical** signals is ... as the **optical** fibers (see Figure 9). **Various** lenslet materials ranging from epoxies to glass, silicon, and polymers are being explored. ...

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... **Optical** coherence tomography (OCT) is a noncontact, noninvasive diagnostic technique that allows ... based on inferior and average RNFL thickness, assessment of **various grades** of glaucomatous ... a recent study comparing RNFL thickness and visual field **loss** between **various** ...

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... An indirect method can potentially determine even smaller total **loss** (to 1 ppm) in a single ... 6 However, those early sources were unsuitable for **optical** dielectrics due to electric charging and impurity ... a) the diver- gence of the beam and (b) the charging effect as **various** ions strike ...

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... A. We then describe the current state of the art in low-**loss** silica manufacturing ... as angles of incidence and beam waists, and adds the uncertainties of **optical** and thermal ... We used the collinear mirage technique to evaluate the absorption coefficients of **various grades** of Supra ...

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... At a frequency of 145 GHz dielectric **loss** tangents of <100 micro-radians are routinely achieved (note ... thermal **grade** has a thermal conductivity within 5% of the highest quality **optical grade**, but can ... 6. Temperature dependence of thermal conductivity for **various** DIAFILM **grades**. ...

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... The **various** factors contributing to **optical loss** in polymer waveguides can be divided into ... The currently available two **grades** of materials have which is too big in many ... Polymeric electro-optic materials: optimization of electro-optic activity, minimization of **optical loss**, and fine ...

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... Figure shows the **optical** transmission of Topas™ COC (**grade** 5013) in the visible and NIR region. It shows that it has **optical** windows at the important laser wavelengths of 1.06, 1.3, and 1.5 μm.

The **optical loss** has been expressed in decibels per centimeter in Fig. ...

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... the fabrication of what as far as we are aware is the longest and lowest-loss submicron taper ... excellent uniformity and low-losses and further the possibility of developing nanophotonic components for various application areas including optical communications, sensing ...

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... 4. The transmission was not calibrated for reflection loss. ... resistance In previous work [4,7-10], laser induced refractive index changes of LiNbO 3, namely optical damage, has ... 6 shows the photoinduced change of birefringence versus irradiation time for various samples. ...

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